

IN 22 Series

Miniature display indicator RTD Pt100 etc.

Ø22 mm

Ref : 3981

Rev :



DESCRIPTION

This device is a thermometer for 4-digit Pt / Ni resistive sensors (RTD PT100, PT500, PT1000). The instrument is based on a microcontroller and an A/D converter, which ensures good accuracy and easy control of the instrument. The 22 mm diameter of the body of the instrument allows its mounting. Convenient in road signs (push button size, indicator lights).

COMMAND

The instrument is adjusted and controlled by two buttons located on the body. As standard, the OML LINK interface allows you to edit and archive all device settings and update firmware.

All settings are stored in the FLASH memory (they are retained even after power is turned off).

STANDARD FUNCTIONS

PROGRAMMABLE DISPLAY

Selection: input type and measurement range
Display: -999... 9999

COMPENSATION

Line (RTD, OHM): automatic (wire 3- and 4-) or manual in the menu (wire 2-)
Probes (RTD): inner connection (resistance of the pipe in the measuring head)

FONCTION

Linéarisation : courbe de linéarisation en 50 points (uniquement avec OM Link)

TECHNICAL CHARACTERISTICS

| | |
|----------------------------------|---|
| MODEL | |
| INPUT Number of inputs | 1 |
| OHM range | Selectable from the menu 0...390 Ω 0...3 900 Ω |
| OHM range | Connexion : 2 or 3 wires |
| Pt Type | Selectable from the menu EU > 100/1 000 Ω, 3 850 ppm -50°...450°C US > 100 Ω, 3 920 ppm/°C -50°...450°C RU > 100 Ω, 3 910 ppm/°C -200°...450°C |
| Pt Type Ni Type | Connexion : 2 ou 3 wires Selectable from the menu Ni 1 000, 5 000 ppm/°C -50°...250°C Ni 1 000, 6 180 ppm/°C -200°...250°C |
| Ni Type | Connexion : 2 ou 3 wires |

DISPLAY

Display: -999... 9999, 7-segment monochrome LED

Height of numbers: 14 mm

Display color: red or green

Comma: adjustable in the menu

Brightness: fixed

TERMS OF USE

Connection: removable screw connector, 1.3 mm2 < section

Stabilization period: 5 minutes after power-on

Operating temperature: -20 °... 60°C

Storage temperature: -20°... 85°C

Sealing: IP65 (only for the front panel)

Electrical safety: EN 61010-1, A2

Dielectric characteristic: 700 VAC after 1 min.

between power supply and input

Insulation resistance: for pollution degree II, cat. II.

power supply, input > 250 V (BI)

EMC : EN 61326-1 (Industrial zone)

DEVICE ACCURACY

TC: 50 ppm/°C

Accuracy: $\pm 0.15\%$ of range + 1 digit (The accuracy is indicated for a -999 display... 1999)

Speed: 0.5... 100 measurement/s

Max overload: 2x; 10x (t < 30 ms)

Resolution: 0.1°C

Line compensation: max. 30 Ω

Linearization: by Interpol. Linear over 50 points (only via OM Link)

OM Link: Communication interface for Control, Tuning and Update devices (microUSB)

Watchdog: RAZ after 500 ms

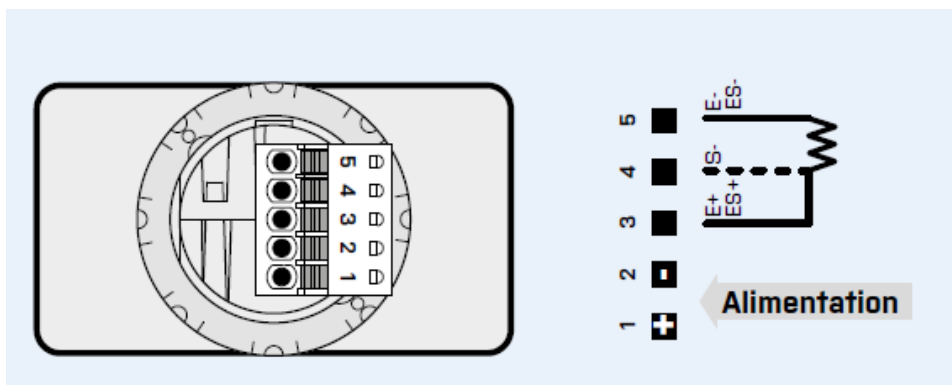
Calibration: at 25°C and 40% RH

SUPPLY

Gamme: 24 V DC/AC, $\pm 10\%$, PF $\geq 0,4$, I_{STP} < 45 A/1,1 ms
10... 30 VDC/24 VAC, $\pm 10\%$, PF $\geq 0,4$, I_{STP} < 45 A/1,1 ms,
insulated

Power consumption: < 0.2 W/0.2 VA

WIRING



CONTACT

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